



GEAR PUMP MANUFACTURING

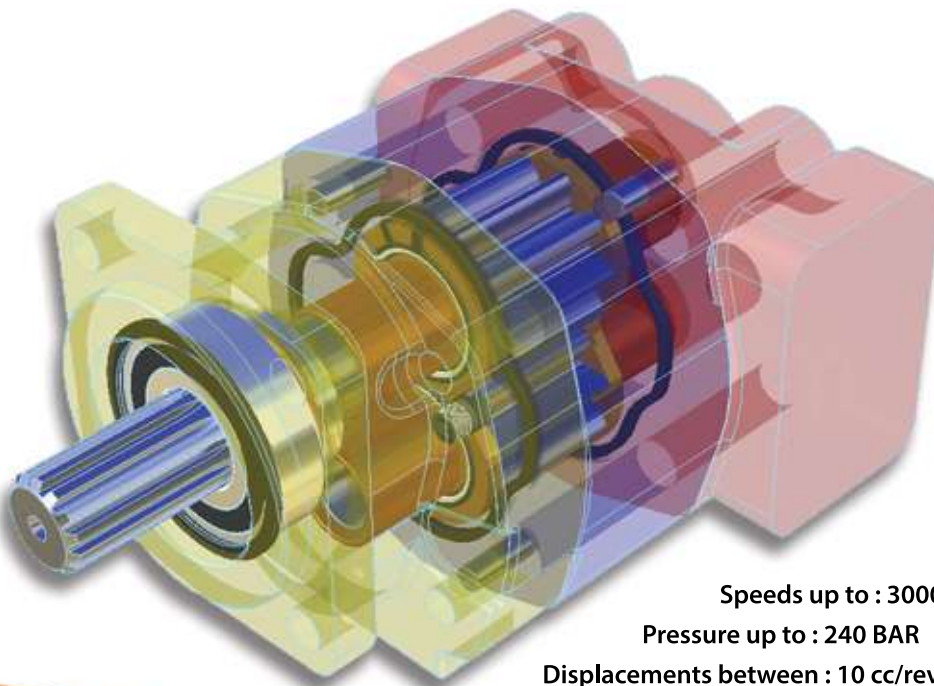
Getting the World into Gear

Bushing Range

SERIES: 215; 230; 250; 265

HYDRAULIC:

- PUMPS
- MOTORS
- FLOW DIVIDERS
- ADD-A-PUMPS
- STEP DOWN PUMPS
- SPARE PARTS



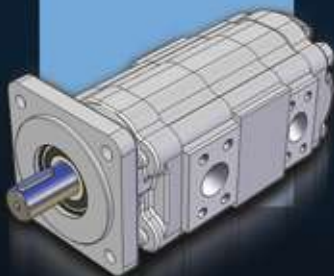
Speeds up to : 3000 RPM

Pressure up to : 240 BAR

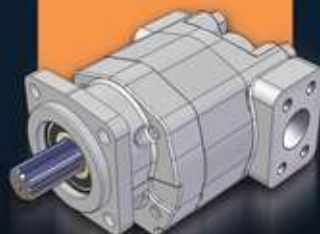
Displacements between : 10 cc/rev - 147 cc/rev

Complete product range:

BEARING PUMPS



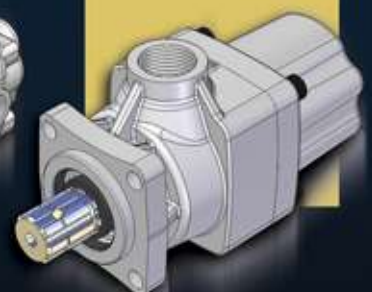
BUSHING PUMPS



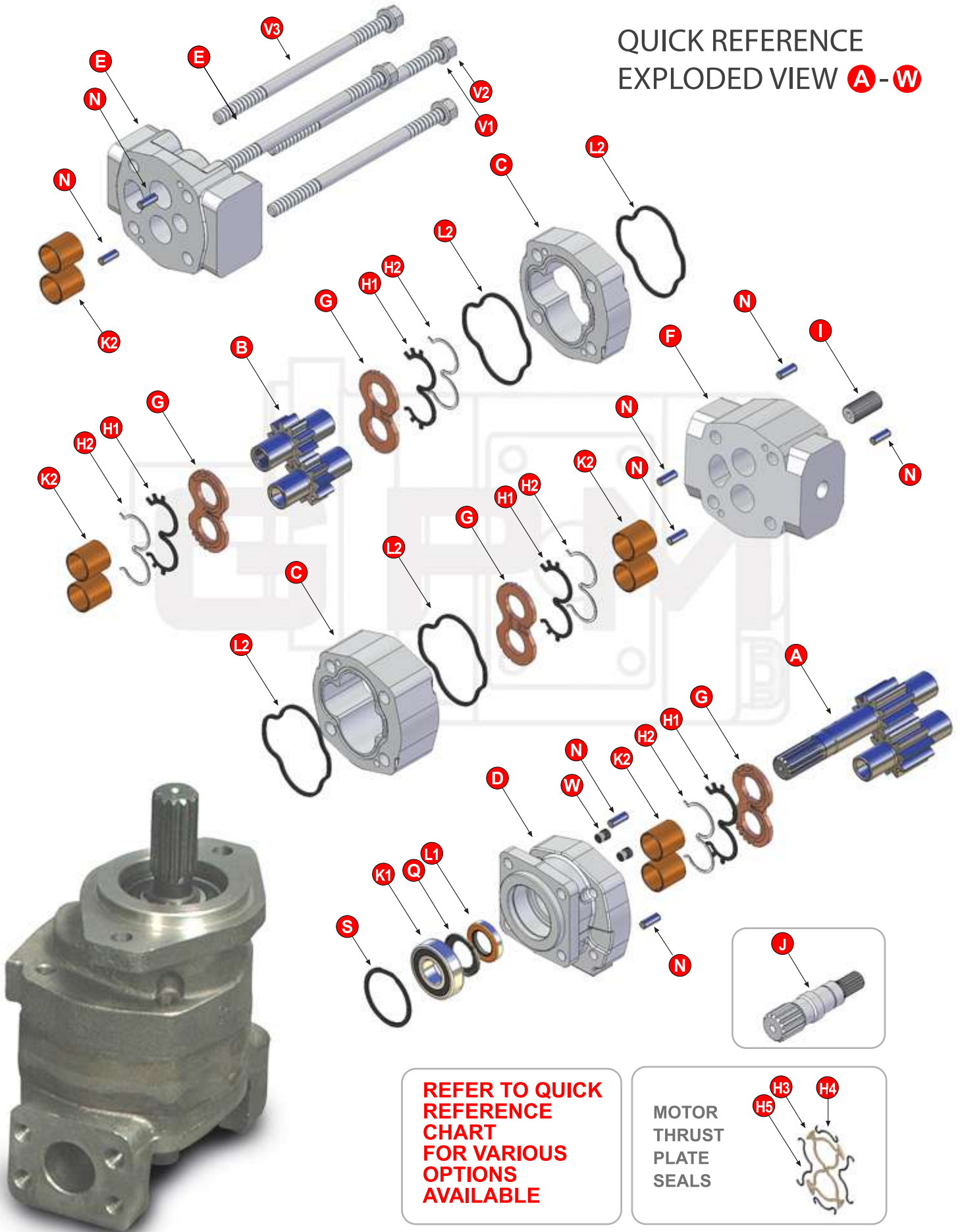
PTO GEAR PUMPS



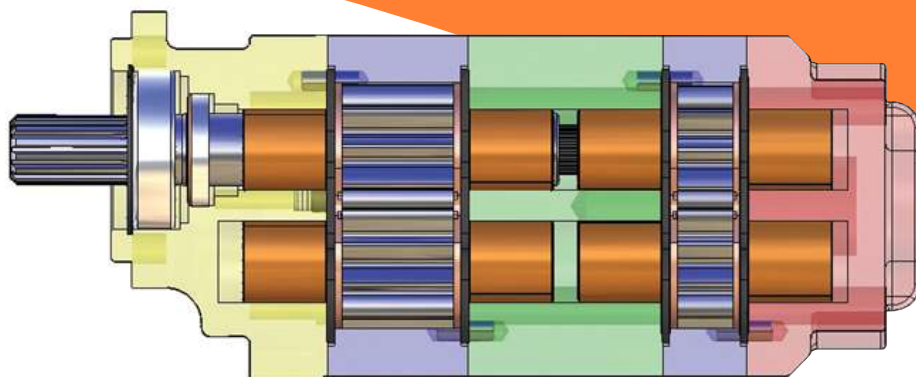
PTO PISTON PUMPS



QUICK REFERENCE EXPLODED VIEW A - W



PUMP & MOTOR SPECIFICATIONS



CODE

Manufactured in South Africa

DASH SIZE GEAR WIDTH	-05 0.50"(1/2")	-07 0.75"(3/4")	-10 1.00"(1")	-12 1.25"(1 1/4")	-15 1.50"(1 1/2")	-17 1.75"(1 3/4")	-20 2.00"(2")	-22 2.25"(2 1/4")	-25 2.50"(2 1/2")
215									
Gear Housing Width	0.88"(7/8")	1.13"(11/8")	1.38"(13/8")	1.63"(15/8")	1.88"(17/8")	2.13"(21/8")	2.38"(23/8")		
cc/rev	10.00	15.00	20.00	25.00	30.00	35.00	40.00		
Lpm (at 1000rpm)	10.00	15.00	20.00	25.00	30.00	35.00	40.00		
cu in (cu in/rev)	0.61	0.92	1.22	1.59	1.84	2.15	2.44		
US gpm (at 1000rpm)	4.23	6.37	8.51	10.65	12.76	14.90	17.04		
Max Pressure (bar)	240	240	240	240	220	200	170		
Max Pressure (psi)	3500	3500	3500	3500	3200	2900	2500		
Max Speed (rpm)	3000	3000	3000	3000	3000	3000	3000		
Pump Weight (kg)	8.00	8.00	8.00	8.50	9.00	9.50	10.00		
Additional sect add (kg)	8.00	8.00	8.00	8.50	9.00	9.50	10.00		
230									
Gear Housing Width	1.00"(1")	1.25"(1 1/4")	1.50"(1 1/2")	1.75"(1 3/4")	2.00"(2")	2.25"(2 1/4")	2.50"(2 1/2")		
cc/rev	16.00	24.10	32.20	40.30	48.30	56.40	64.50		
Lpm (at 1000rpm)	16.00	24.10	32.20	40.30	48.30	56.40	64.50		
cu in (cu in/rev)	0.99	1.48	1.97	2.46	2.96	3.45	3.94		
US gpm (at 1000rpm)	4.23	6.37	8.51	10.65	12.76	14.90	17.04		
Max Pressure (bar)	240	240	240	240	240	220	200		
Max Pressure (psi)	3500	3500	3500	3500	3200	2900	2500		
Max Speed (rpm)	3000	3000	3000	3000	3000	3000	3000		
Pump Weight (kg)	16.00	16.00	16.00	16.60	17.20	17.80	18.40		
Additional sect add (kg)	14.40	14.40	14.40	14.90	15.50	16.00	16.60		
250									
Gear Housing Width	1.00"(1")	1.25"(1 1/4")	1.50"(1 1/2")	1.75"(1 3/4")	2.00"(2")	2.25"(2 1/4")	2.50"(2 1/2")	2.75"(2 3/4")	3.00"(3")
cc/rev	20.80	31.20	41.70	52.10	62.60	73.00	83.50	94.00	104.40
Lpm (at 1000rpm)	20.80	31.20	41.70	52.10	62.60	73.00	83.50	94.00	104.40
cu in (cu in/rev)	1.28	1.91	2.55	3.19	3.82	4.46	5.10	5.74	6.38
US gpm (at 1000rpm)	5.50	8.24	11.02	13.76	16.54	19.29	22.06	24.84	27.58
Max Pressure (bar)	240	240	240	240	240	220	200	190	170
Max Pressure (psi)	3500	3500	3500	3500	3500	3250	3000	2750	2500
Max Speed (rpm)	2400	2400	2400	2400	2400	2400	2400	2400	2400
Pump Weight (kg)	22.70	22.70	22.70	23.40	24.10	24.80	25.50	26.20	26.90
Additional sect add (kg)	22.70	22.70	22.70	23.40	24.10	24.80	25.50	26.20	26.90
265									
Gear Housing Width		1.25"(1 1/4")	1.50"(1 1/2")	1.75"(1 3/4")	2.00"(2")	2.25"(2 1/4")	2.50"(2 1/2")	2.75"(2 3/4")	3.00"(3")
cc/rev		44.00	59.00	73.50	88.00	102.00	118.00	132.60	147.00
Lpm (at 1000rpm)		44.00	59.00	73.50	88.00	102.00	118.00	132.60	147.00
cu in (cu in/rev)		2.68	3.60	4.49	5.37	6.22	7.20	8.09	8.97
US gpm (at 1000rpm)		11.62	15.59	19.42	23.25	26.95	31.18	35.03	38.84
Max Pressure (bar)		240	240	240	240	240	240	220	200
Max Pressure (psi)		3500	3500	3500	3500	3500	3500	3250	3000
Max Speed (rpm)		2400	2400	2400	2400	2400	2400	2400	2400
Pump Weight (kg)		24.90	24.90	26.00	27.10	28.20	29.30	30.40	31.50
Additional sect add (kg)		22.70	22.70	23.40	24.10	24.80	25.50	26.20	26.90

THE ABOVE DATA ARE AVERAGE RESULTS BASED ON A SERIES OF TESTS AND ARE NOT NECESSARILY REPRESENTATIVE OF ANY SINGLE UNIT. GEAR PUMP MANUFACTURING RESERVES THE RIGHT TO AMEND THE TECHNICAL DATA WITHOUT NOTICE.

Useful Formulae	To Convert	Inches	Bar	Cu in/rev	US GPM	US GPM	kg
	Into	Millimeters	Psi	cc/rev	Cu In/rev	cc/rev	Lbs
	Multiply by	25.4	14.5	16.39	2.31	3.785	2.205

GP = PUMP
GM = MOTOR
GF = FLOW DIVIDER
GA = ADD-A-PUMP
GB = STEP DOWN
GZ = PUMP / MOTOR COMBO

Bushing Range

QUICK REFERENCE - Parts list A to G

	215	230	250	265
SOLID SHAFT GEAR SET				
7/8" KEY SAE B		ADC-230-??		
7/8" KEY SHORT SAE B	ADK-215-??			
1" KEY SAE BB		AEC-230-??	ATF-250-??	
1 1/8" KEY (JCB)		AHC-230-??		
1 5/16" KEY with 7/8" UNF thread		ATH-230-??		
1 1/4" KEY SAE C			ASF-250-??	AAG-265-??
22 MM KEY METRIC	AAO-215-??			
9 SPLINE 5/8" SHORT SAE A	AZK-215-??			
10 SPLINE 30mm OD				AIR-265-??
11 SPLINE 3/4"	AGK-215-??			
13 SPLINE 7/8" SAE B		ABC-230-??	AVF-250-??	ABG-265-??
13 SPLINE 7/8" SHORT SAE B	ABK-215-??	ABC-230-4-??		
13 SPLINE 7/8" XTRA SHORT (FORD) SAE B		AFD-230-??		
14 SPLINE 1 1/4" SAE C			APF-250-??	ANG-265-??
14 SPLINE 1 1/4" SAE C LONG				ANG-265-L-??
14 SPLINE (CLARK) 1 1/4"			ACL-250-??	
15 SPLINE 1" SAE BB	AAK-215-??	AAC-230-??	AAF-250-??	
17 SPLINE 1 1/8" (CASE)			ACF-250-??	
TAPER (FORD)	AFR-215-??			
TAPER 1:8 (GROUP 3)	AEK-215-??			
TAPER 1:5	ATK-215-??			
FORD		AFD-230-??		
LUBE PUMP - DOSCO SPL	ASK-215-??			
LOOSE GEAR SETS **Substitute ?? with Gear Width Code				
STANDARD	BVK-215-??	BVC-230-??	BMF-250-??	BPG-265-??
GEAR HOUSINGS **Substitute ?? with Gear Width Code				
PUMP	CRK-215-??	CRC-230-??	CMH-250-??	CSG-265-??
MOTOR	CLK-215-??	CSC-230-??	CLF-250-??	CLG-265-??
SHAFT END COVERS **Substitute ?? with Gear Width Code				
2 BOLT 3.25" SAE A	DWK-215	DWC-230		
2 BOLT 3.25" SAE A WITH S/RETAINER	DWK-215-SPL			
2 BOLT 3.25" SAE A MOTOR	DWK-215-M			
2 BOLT 4" SAE B	DGK-215	DGC-230	DRF-250	DRG-265
2 BOLT 4" SAE B MOTOR	DGK-215-M			DRG-265-M
2 BOLT 4" SAE B SHORT		DGC-230-SH		
2 BOLT 4" XTRA SHORT (FORD)		DFD-230		
2 BOLT 5" SAE C		DNC-230	DNF-250	DVG-265
2 BOLT 5" SAE C MOTOR				DVG-265-M
4 BOLT 4" SAE B	DEK-215	DEC-230	DHF-250	DSG-265
4 BOLT 4" SAE B MOTOR				DSG-265-M
4 BOLT 5" SAE C		DPC-230	DKF-250	DTG-265
4 BOLT 5" SAE C MOTOR				DTG-265-M
4 BOLT DIN PTO			DZF-250	
4 BOLT GROUP 3 EURO	DHK-215			
2 1/4 BOLT 4" SAE B			DDB-250-4	
2 1/4 BOLT 4" SAE B SHORT			DDB-250-4-SH	
2 1/4 BOLT 5" SAE C			DDB-250-5	
PAD MOUNT FAN MOTOR	DFK-215-M			
LUBE PUMP - DOSCO SPL	DSK-215			
FORD - 3 BOLT 95.2 spigot	DFR-215			
PORT END COVERS				
PORTED	EUK-215	EUC-230	EWf-250	EWG-265
PORTED 4 PORT	EUK-215-4	EUC-230-4	EWf-250-4	
TANDEM	EXK-215	EXC-230	EZF-250	EYG-265
MOTOR	EUK-215-M	EUC-230-M	EUF-250-M	EWG-265-M
MOTOR TANDEM				EYG-265-M
FAN MOTOR	EPK-215-M			
FORD - WITH INLET TUBE		EFD-230		
STEP DOWN CW		EPB-230/215 CW	EPB-250/215 CW	EPB-265/230 CW
STEP DOWN CCW		EPB-230/215 CCW	EPB-250/215 CCW	EPB-265/230 CCW
ADD A PUMP 2 BOLT A CW			EAAP250 2bA CW	EAAP265 2bA CW
ADD A PUMP 2 BOLT A CCW			EAAP250 2bA CCW	EAAP265 2bA CCW
ADD A PUMP 2 BOLT B CW			EAAP250 2bB CW	EAAP265 2bB CW
ADD A PUMP 2 BOLT B CCW			EAAP250 2bB CCW	EAAP265 2bB CCW
BEARING CARRIERS				
1 OUTLET	FYK-215-1	FWC-230-1	FTF-250-1	FZG-265-1
2 OUTLET	FYK-215-2	FWC-230-2	FTF-250-2	FZG-265-2
MOTOR	FYK-215-M	FWC-230-M	FTF-250-M	FZG-265-M
3" SUCTION				FZG-265-3
THRUST PLATES				
PUMP	GCI-215	GCI-230	GCI-250	GCI-265
MOTOR	GM-215	GM-230	GM-250	GM-265

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SABS
ISO 9001

Manufactured in South Africa

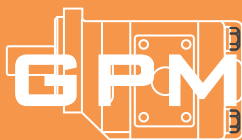
QUICK REFERENCE - Parts list **H** to **W**

	215	230	250	265
H	THRUST PLATE SEALS			
	PUMP CHANNEL SEAL (H1)	HCI-215-CS	HCI-230-CS	HCI-250-CS
	PUMP CHANNEL SEAL BACKUP (H2)	HCI-215-CSBU	HCI-230-CSBU	HCI-250-CSBU
	MOTOR SEAL BACKUP (H3)	HM-215-MSBU	HM-230-MSBU	HM-250-MSBU
	MOTOR END SEAL (H4)	HM-215-MES	HM-230-MES	HM-250-MES
	MOTOR SIDE SEAL (H5)	HM-215-MSS	HM-230-MSS	HM-250-MSS
I	CONNECTING SHAFTS			
	STANDARD	IZK-215	IZC-230	IYF-250
	STEP DOWN		IPB-230/215	IPB-250/215
	ADD A PUMP with 9 SPLINE			IAAP-250/9SPL
	ADD A PUMP with 13 SPLINE			IAAP-265/9SPL
	ADD A PUMP with 15 SPLINE			IAAP-265/13SPL
	DIN/SAE B COUPLING	I-DIN/SAE B	I-DIN/SAE B	I-DIN/SAE B
J	LOOSE SHAFTS			
	7/8" KEY		JCK-230	
	7/8" KEY LONG		JCK-230-L	
	1" KEY	JGD-215	JCD-230	
	1" KEY LONG	JGD-215-L		
	1 1/8" KEY		JHH-230	JHH-250
	1 1/4" KEY		JCW-230	JAC-250
	1 1/4" KEY with 1/2" thread			JKE-250
	6 SPLINE 1 1/4"		JKD-230	
	8 SPLINE DIN			JDI-250
	14 SPLINE 1 1/4" SAE C		JCH-230	JAP-250
	15 SPLINE 1" SAE BB			JFG-250
	17 SPLINE Komatsu 1 1/2"			JKG-265
K	BEARINGS / BUSHES			
	BUSHES (K2)	KBUSH-215	KBUSH-230	KBUSH-250
	SHAFT BALL BEARING (K1)		KX-131-40	KX-151-58
	ADD A PUMP			KAAP-250/265
L	SEALS			
	BODY SEALS	LUB-215-239	LUB-131-242	LUB-250-244
	MOTOR BODY SEAL	LUB-215-239M		
	PUMP SEAL STANDARD	LX-215	LX-131-16	LX-151-17
	MOTOR SEAL STANDARD	LX-215-M	LX-131-9	LX-151-8
	PUMP SEAL TELLTALE			LPA-250-TT
	PUMP SEAL LOOSE SHAFT		LX-131-18	
	MOTOR SEAL LOOSE SHAFT		LX-131-11	
	PUMP SEAL VITON		LX-131V-16	LX-151V-17
M	RETAINERS			
	SEAL RETAINER MOTOR	MFR-215		
	SEAL RETAINER LUBE PUMP - DOSCO SPL	MSK-215		
	SEAL RETAINER TELLTALE		MNA-230-1	MPA-250
N	DOWELS			
	STANDARD	NDOWEL-215	NDOWEL-131	NDOWEL-131
	MOTOR			NDOWEL-265
Q	SPACERS			
	SEAL SPACER	QAE-215	QAE-131	QAC-151
	BEARING SPACER		QVB-131-2	QVB/AC-151
	SHAFT SPACER (CONTI)		QTB-131	QAF-176
R	KEYS			
	7/8" SHAFT	RX-18	RX-18	RX-18
	1" SHAFT	RX-16	RX-16	RX-16
	1 1/8" SHAFT		RX-54	RX-54
	1 1/4" SHAFT		RX-19	RX-19
	1:8 TAPER SHAFT (AEK)	RX-506		
	1:5 TAPER SHAFT (ATK/AFR)	RX-505		
S	SNAP RINGS / CIRCLIPS			
	SHAFT		SX-131-100	SX-151-125
	SHAFT END COVER	SX-215	SX-131-206	SX-151-283
	ADD A PUMP			SAAP250/265
V	FASTENERS			
	BOLTS	VBOLT 1/2" X ?	VBOLT 5/8" X ?	VBOLT 5/8" X ?
	NUTS	VNUT 1/2"	VNUT 5/8"	VNUT 5/8"
	WASHERS	VWASHER 1/2"	VWASHER 5/8"	VWASHER 5/8"
	WASHERS 265 MOTOR			VWASHER 3/4"
	STUDS 06"-11" EXTENDED THREAD ON ONE SIDE	VSTUD 1/2"X6-11	VSTUD 5/8"X6-11	VSTUD 5/8"X6-11
	STUDS 11"-16" EXTENDED THREAD ON ONE SIDE	VSTUD 1/2"X11-16	VSTUD 5/8"X11-16	VSTUD 5/8"X11-16
	STUDS 16"-21" EXTENDED THREAD ON ONE SIDE	VSTUD 1/2"X16-21	VSTUD 5/8"X16-21	VSTUD 5/8"X16-21
	STUDS 21"-26" EXTENDED THREAD ON ONE SIDE	VSTUD 1/2"X21-26	VSTUD 5/8"X21-26	VSTUD 5/8"X21-26
W	SMALL PARTS			
	PLUG DRAIN	WX-131-11	WX-131-11	WX-131-11
	PLUG SHAFT END COVER	WT-131-1391	WT-131-1391	WT-131-1391
	CHECK VALVES	WM-131-1391	WM-131-1391	WM-131-1391

**Substitute ? with Bolt Length (Imperial)

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